

English Version

**Unfired pressure vessels - Part 9: Conformance of the EN 13445
series to ISO 16528**

Réceptacles sous pression non soumis à la flamme - Partie 9
: Conformité de la série EN 13445 à l'ISO 16528

Unbefeuerte Druckbehälter - Gegenüberstellung der EN
13445 Normenreihe und ISO 16528

This Technical Report was approved by CEN on 3 April 2011. It has been drawn up by the Technical Committee CEN/TC 54.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents		Page
Foreword.....		3
1	Scope	4
2	Failure mode summary	5
3	Detailed failure mode checklists	6
4	Detailed technical requirements checklist.....	39

Foreword

This document (CEN/TR 13445-9:2011) has been prepared by Technical Committee CEN/TC 54 "Unfired pressure vessels", the secretariat of which is held by BSI.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes CEN/TR 13445-9:2007.

The main differences between this edition and CEN/TR 13445-9:2007 are:

- a) updating on the basis of the 2009 edition of EN 13445;
- b) inclusion of full details for the following failure modes: creep rupture, creep - excessive deformations at mechanical joints or resulting in unacceptable transfer of load, creep instability

1 Scope

This CEN Technical Report details the conformance of the EN 13445 series for "Unfired pressure vessels" to ISO 16528-1 "Boilers and pressure vessels – Part 1: Performance requirements".

This Technical Report applies to vessels of steel construction.

It is envisaged that future editions will include spheroidal graphite cast iron and aluminium vessels.